FOS290 "EE882760

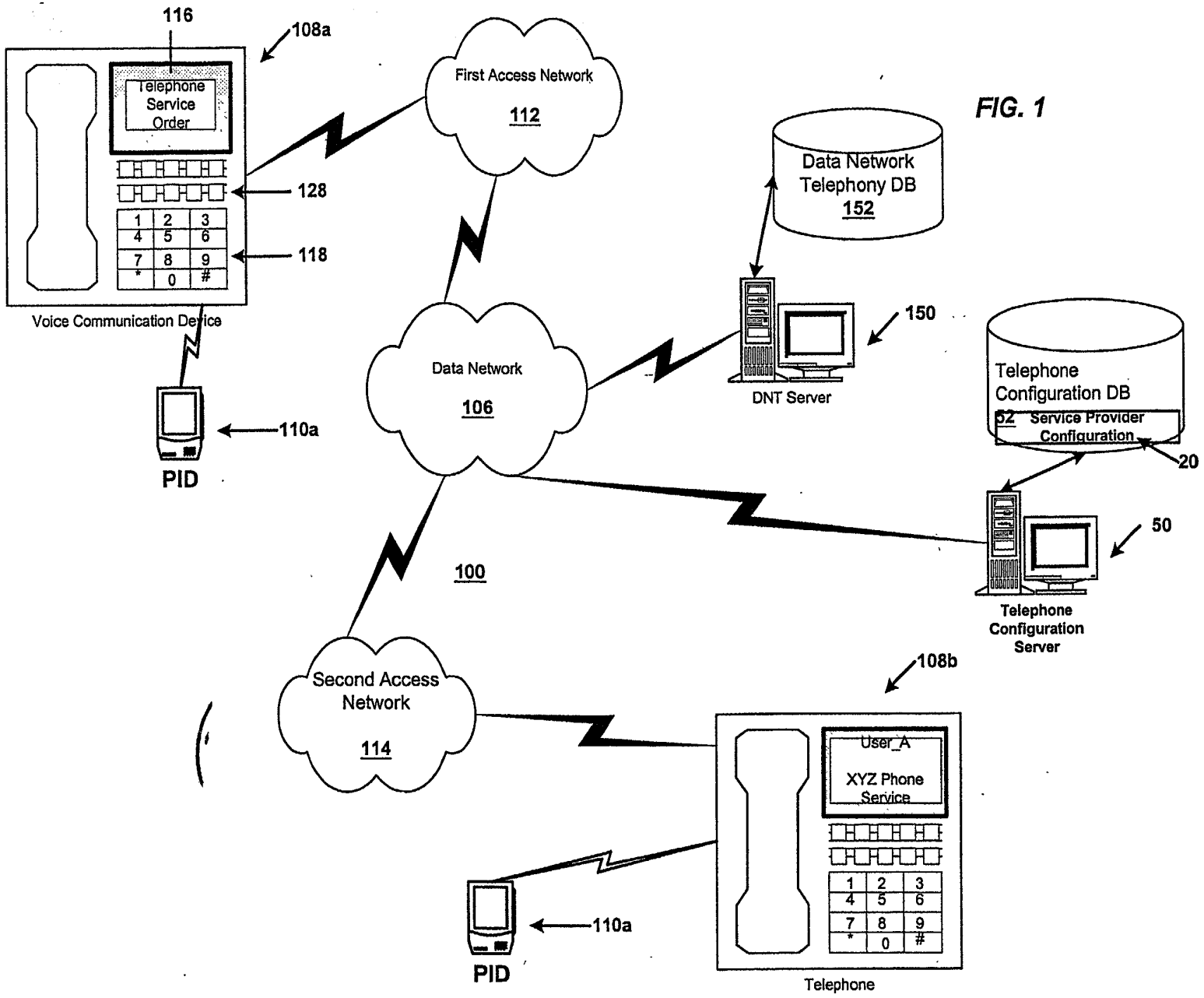


FIG. 1

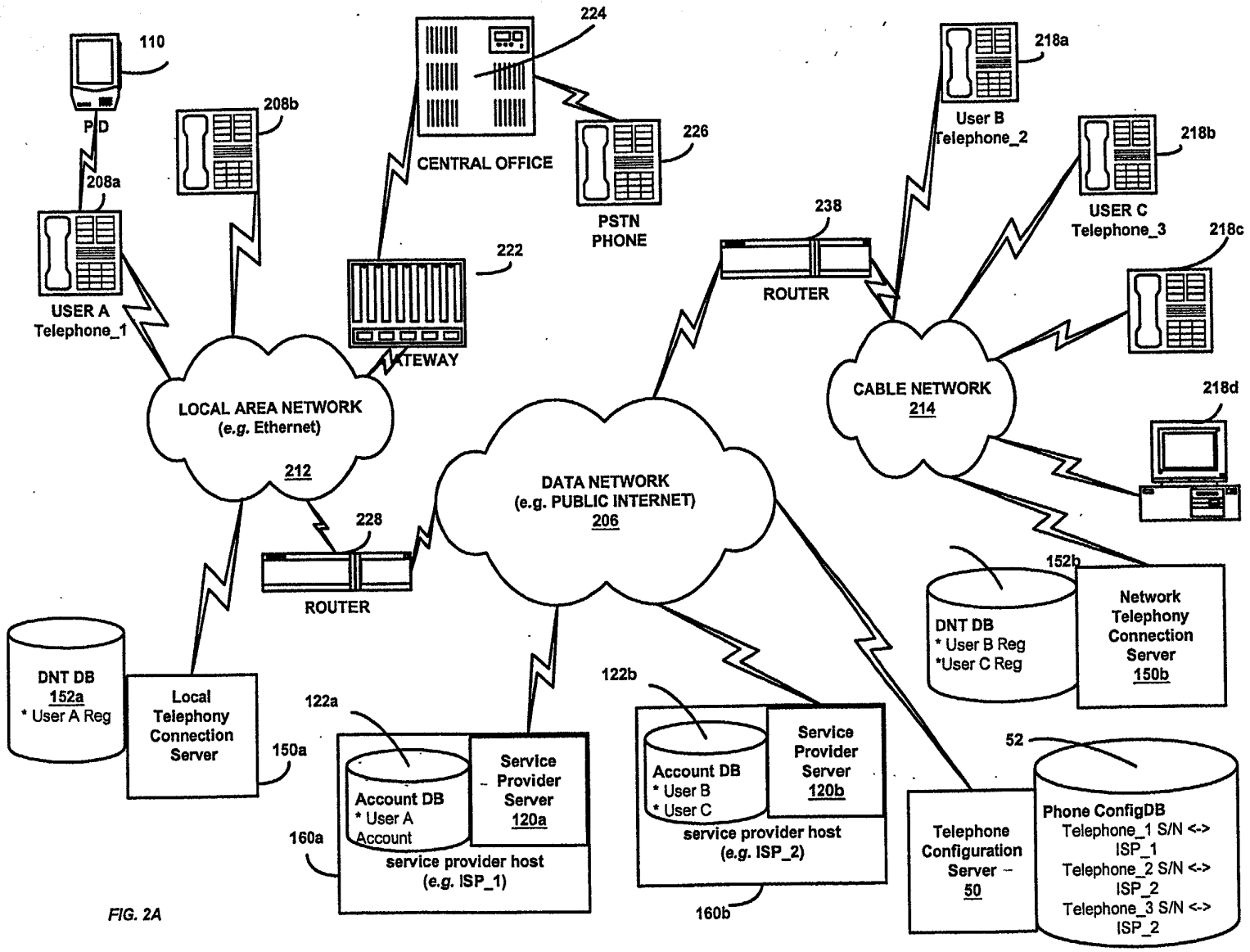

110
PID
208a
208b
USER A
Telephone_1
224
CENTRAL OFFICE
226
PSTN
PHONE
222
GATEWAY
LOCAL AREA NETWORK
(e.g. Ethernet)
212
238
ROUTER
218a
User B
Telephone_2
218b
USER C
Telephone_3
218c
CABLE NETWORK
214
218d
DATA NETWORK
(e.g. PUBLIC INTERNET)
206
228
ROUTER
DNT DB
152a
* User A Reg
Local
Telephony
Connection
Server
150a
122a
Account DB
* User A
Account
Service
Provider
Server
120a
160a
service provider host
(e.g. ISP_1)
122b
Account DB
* User B
* User C
Service
Provider
Server
120b
service provider host
(e.g. ISP_2)
160b
152b
DNT DB
* User B Reg
*User C Reg
Network
Telephony
Connection
Server
150b
52
Telephone
Configuration
Server
50
Phone ConfigDB
Telephone_1 S/N <->
ISP_1
Telephone_2 S/N <->
ISP_2
Telephone_3 S/N <->
ISP_2

FIG. 2A

TOS290 EE882760

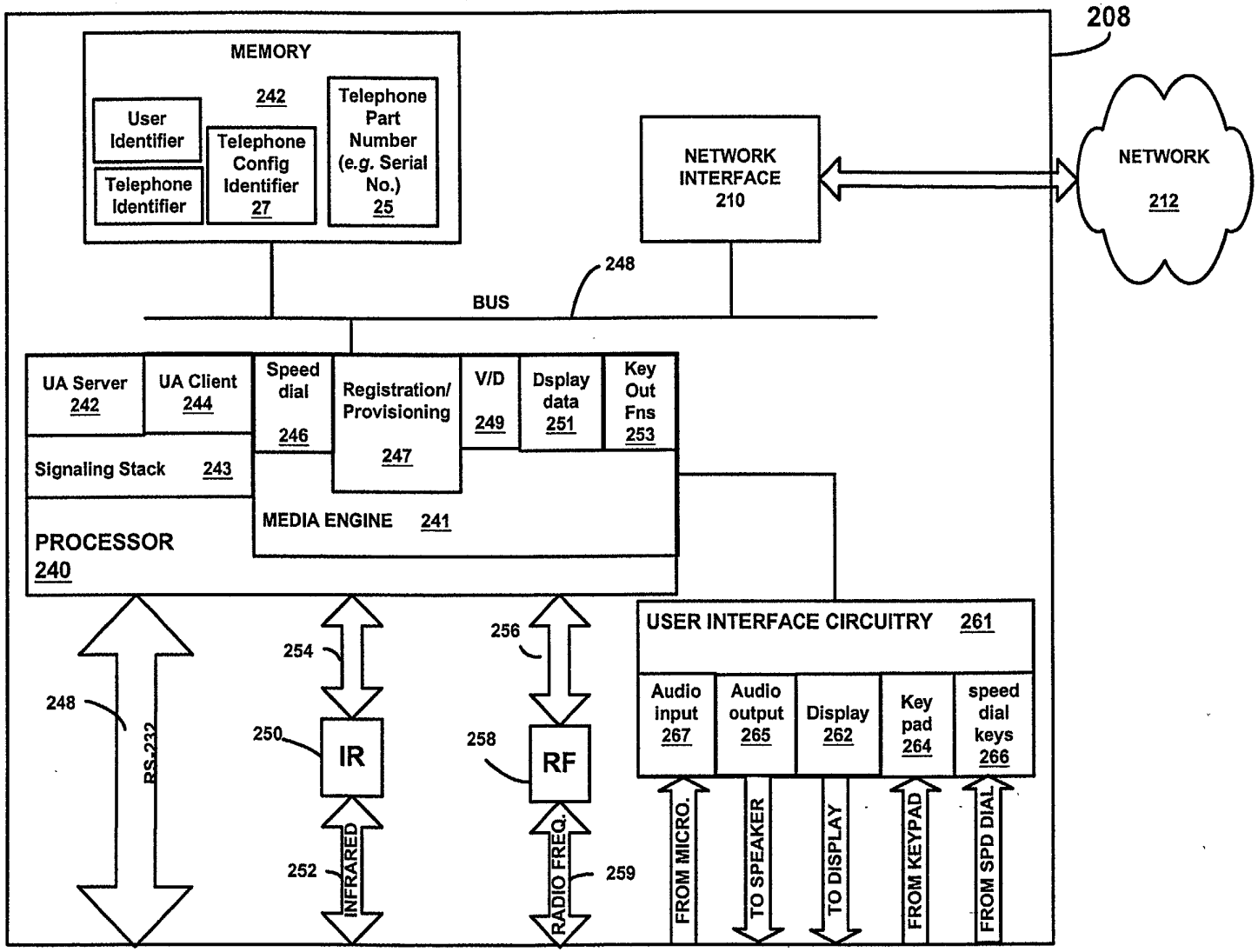
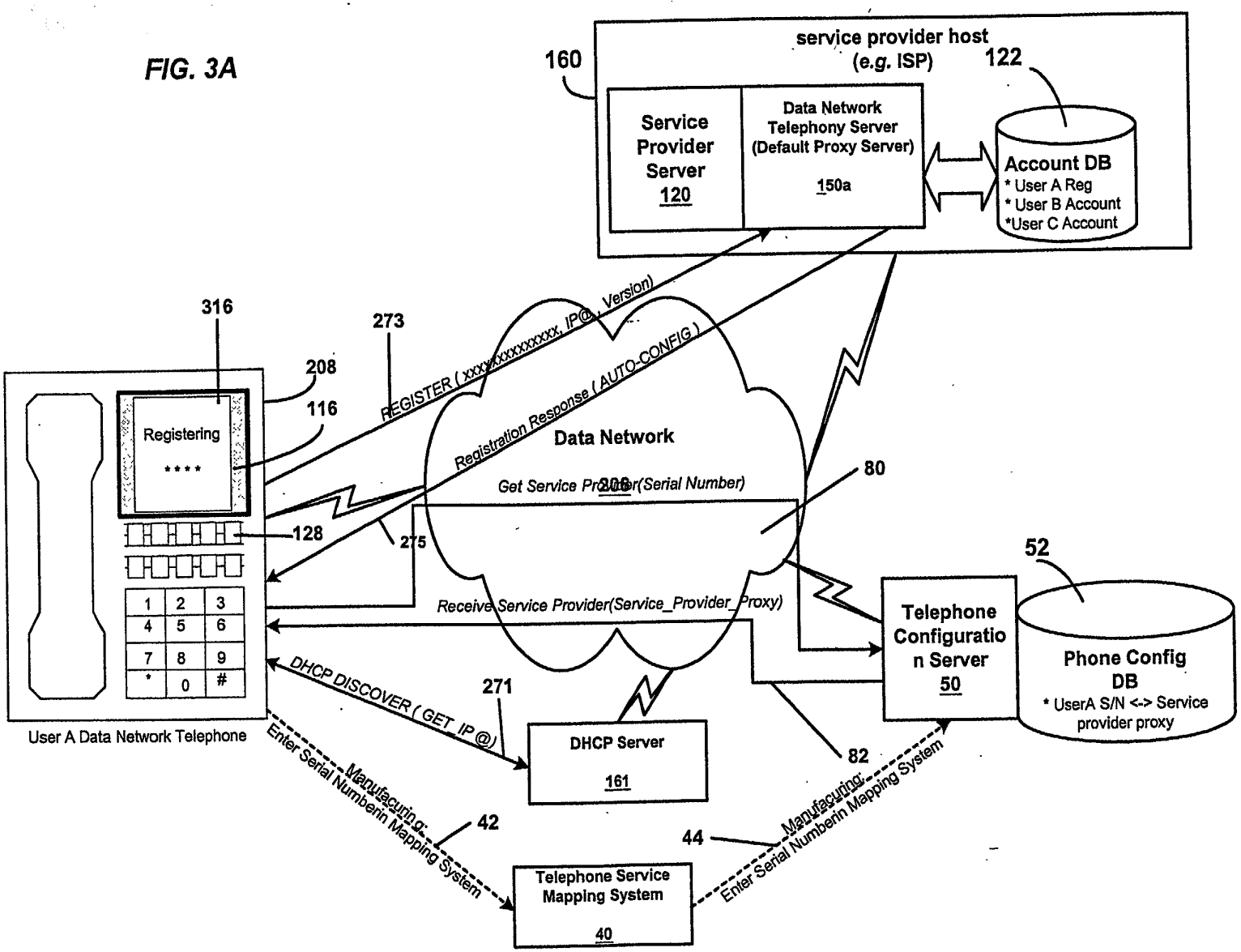


FIG. 2B

TOS290 EE882760

FIG. 3A



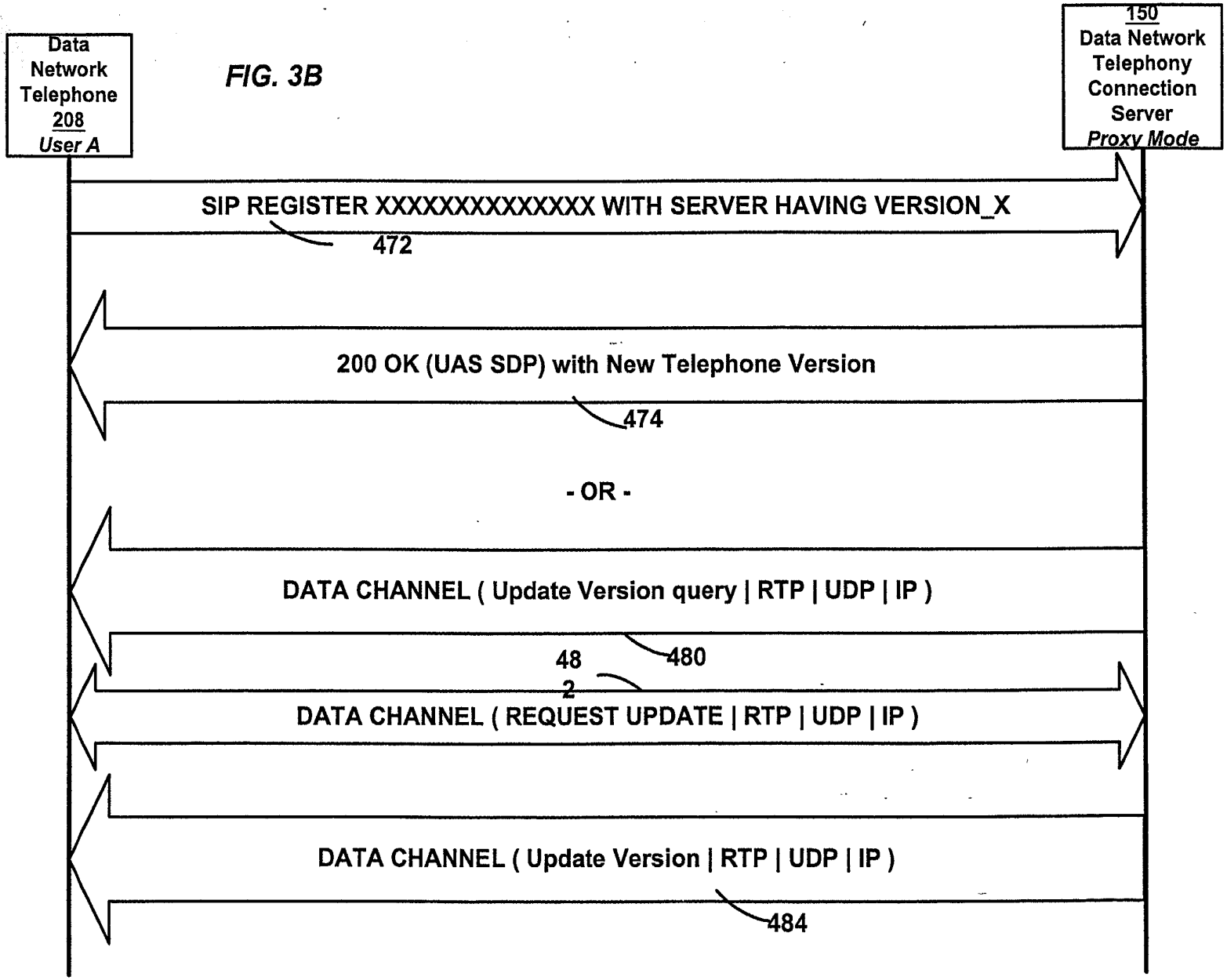

Data Network Telephone 208 User A
150 Data Network Telephony Connection Server Proxy Mode
SIP REGISTER XXXXXXXXXXXXX WITH SERVER HAVING VERSION_X
472
200 OK (UAS SDP) with New Telephone Version
474
- OR -
DATA CHANNEL (Update Version query | RTP | UDP | IP)
480
48
2
DATA CHANNEL (REQUEST UPDATE | RTP | UDP | IP)
DATA CHANNEL (Update Version | RTP | UDP | IP)
484

FIG. 3B

TOS230 EE882460

FIG. 3C

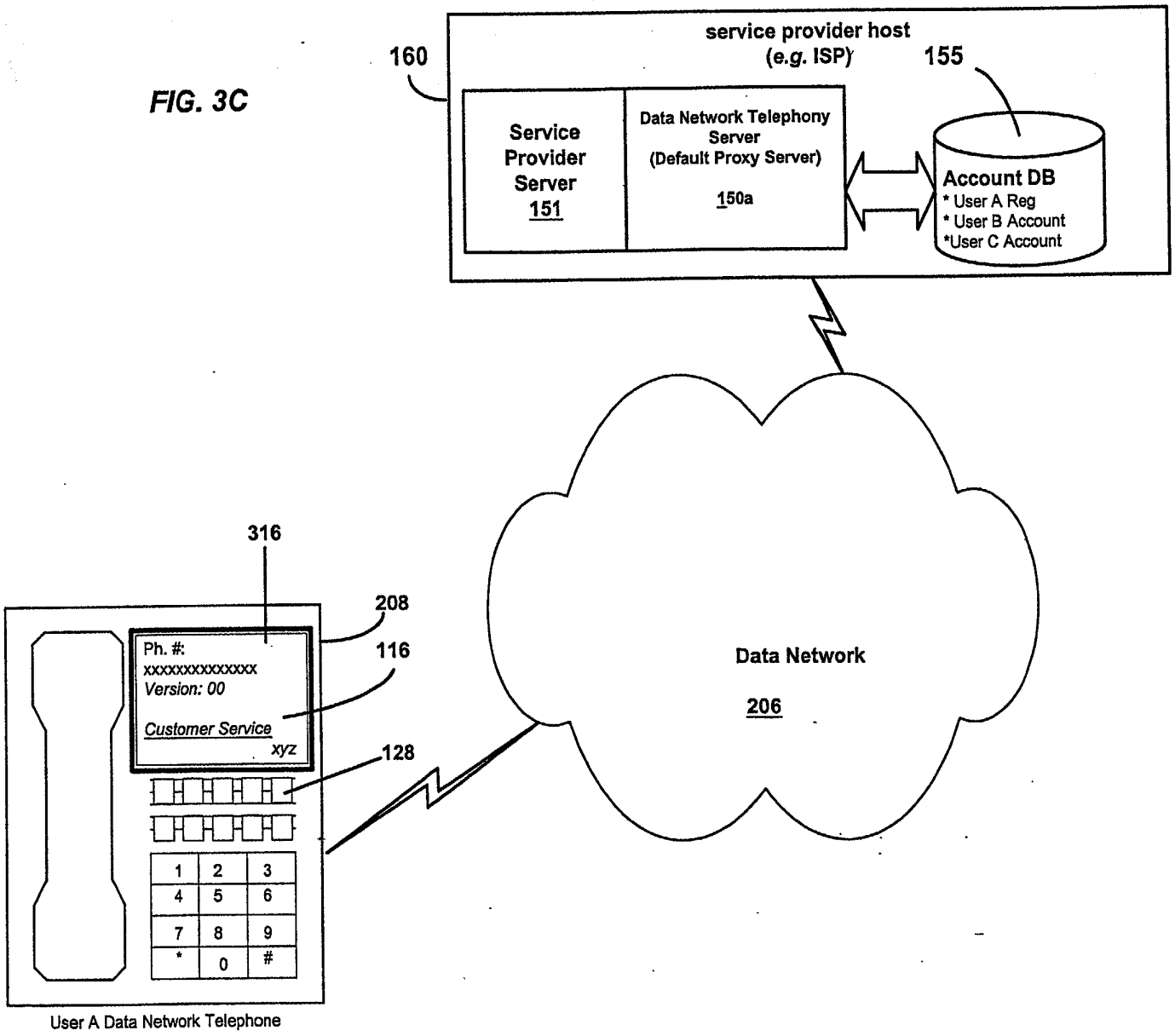
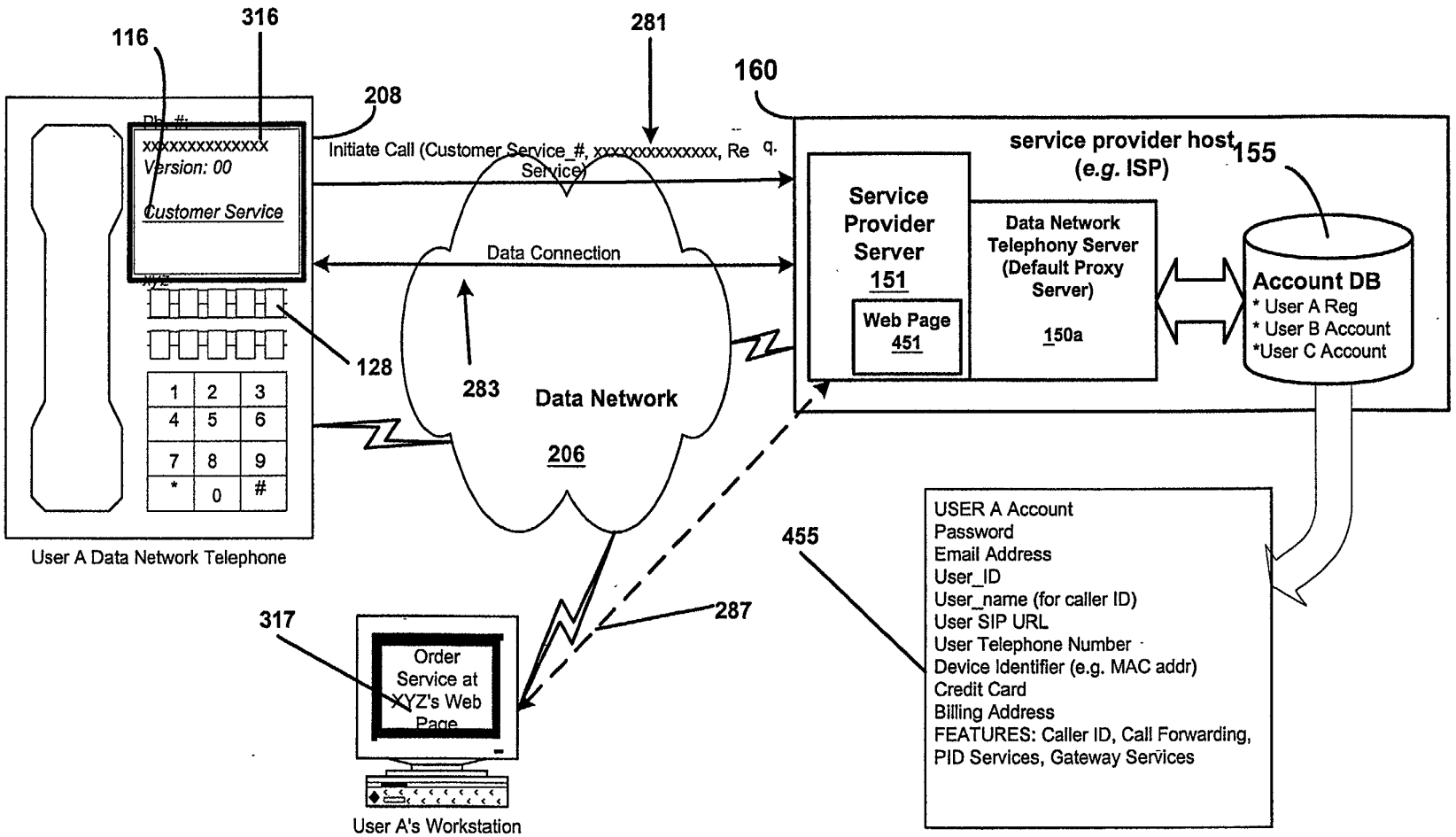


FIG. 4A


116
316
281
160
208
Ph. #
xxxxxxxxxxxxx
Version: 00
Customer Service
Initiate Call (Customer Service_#, xxxxxxxxxxxxx, Req. Service)
service provider host (e.g. ISP)
155
Service Provider Server 151
Web Page 451
Data Network Telephony Server (Default Proxy Server) 150a
Account DB
* User A Reg
* User B Account
*User C Account
Data Connection
128
283
Data Network
206
1 2 3
4 5 6
7 8 9
* 0 #
User A Data Network Telephone
455
USER A Account
Password
Email Address
User_ID
User_name (for caller ID)
User SIP URL
User Telephone Number
Device Identifier (e.g. MAC addr)
Credit Card
Billing Address
FEATURES: Caller ID, Call Forwarding, PID Services, Gateway Services
317
287
Order Service at XYZ's Web Page
User A's Workstation

TDS2390-EE382460

FIG. 4B

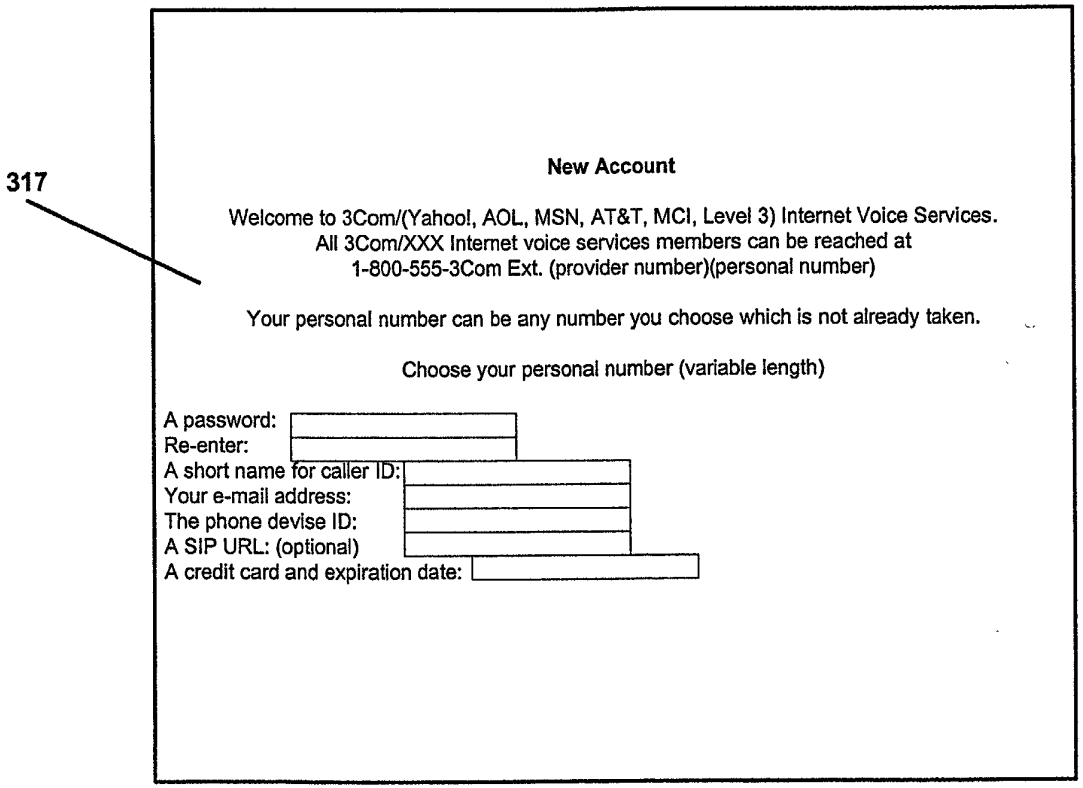
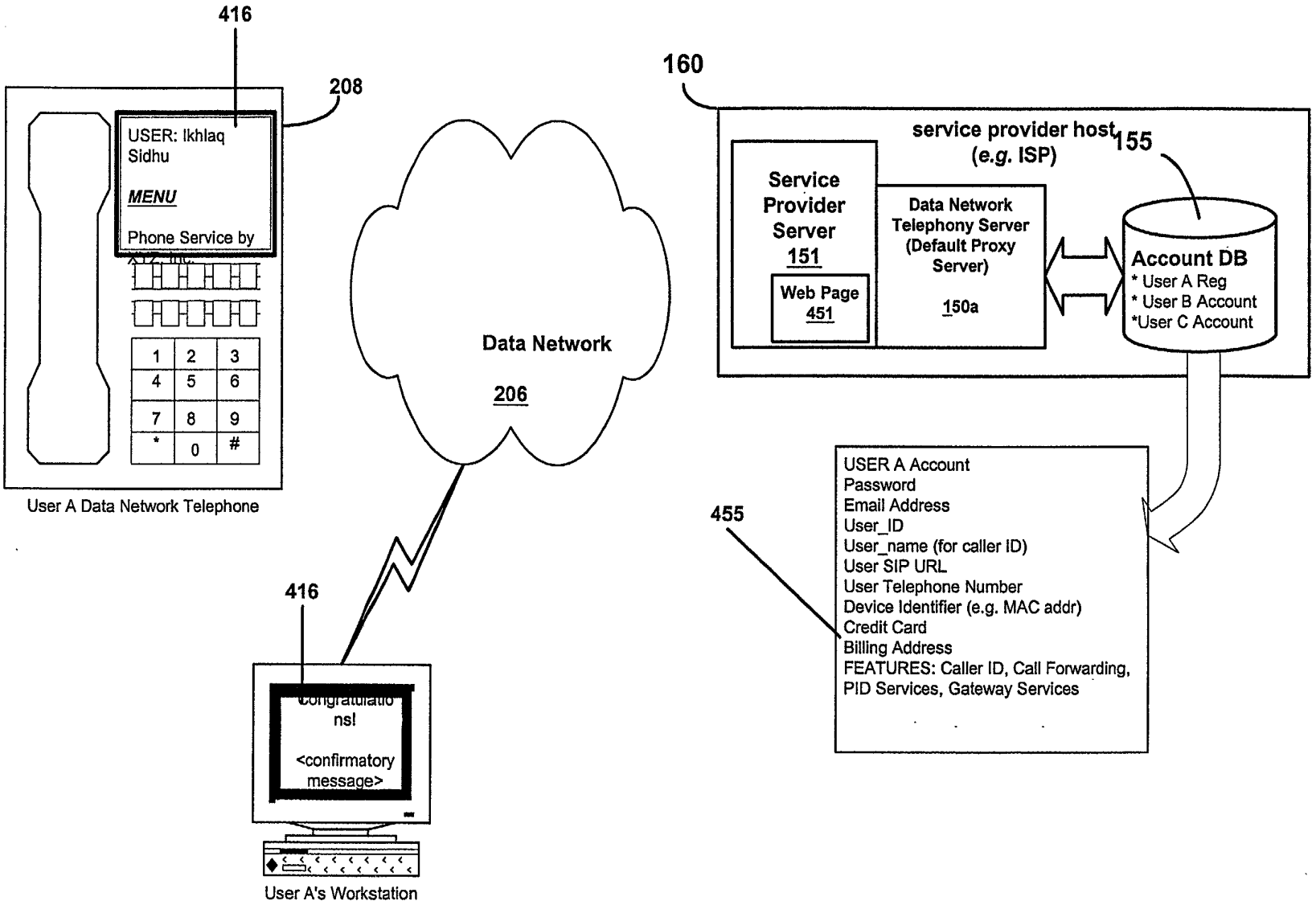


FIG. 4C


416
208
USER: Ikhlaq Sidhu
MENU
Phone Service by
1 2 3
4 5 6
7 8 9
* 0 #
User A Data Network Telephone
Data Network
206
160
service provider host
(e.g. ISP)
155
Service Provider Server
151
Web Page
451
Data Network Telephony Server (Default Proxy Server)
150a
Account DB
* User A Reg
* User B Account
*User C Account
455
USER A Account
Password
Email Address
User_ID
User_name (for caller ID)
User SIP URL
User Telephone Number
Device Identifier (e.g. MAC addr)
Credit Card
Billing Address
FEATURES: Caller ID, Call Forwarding, PID Services, Gateway Services
416
ns!
<confirmatory message>
User A's Workstation

Congratulations!

An E-mail has been sent to you. You must reply to that e-mail to activate this account. You should print this page and keep it for future reference.

417

+ Your new "personal" phone number is 1-800-5553Com Ext. 200 634-0610
+ Your SIP address (for Palm PDA based dialing) is ikhlaq_sidhu.3com.com@xxx.com

Some Frequently asked questions:
Q: How do I dial another 3Com / XXX Internet phone user?
A: You only need to dial the extension number. For example other 3Com/(...) users with the same provider code (200) can call you at 634-0610. To call a user with another (say 202) provider number, you must dial 1-202-634-0610.

Q: How do I dial traditional people phones?
A: Dial 9 to get out of the system. I.e. dial 9, 1800-CALL ATT to use a AT&T calling card.

Q: How are calls billed?
A: There is no extra charge for calls to other 3Com/XXX subscribers.
There is no extra charge to make domestic long distance calls over the Public Telephone Net. International calls over the public network are billed to your credit card on a per call basis.

Q: How do I set speed dials and other advanced features?
A: Goto www.3comvoice.com/ikhlaq_sidhu.3com.com@xyz.com and enter your password ZZZ.

Q: How do I use speed dialing from my Palm PDA?
A: The proxy server option must be set to proxy@xxx.com. Any subscriber with an e-mail address can be auto dialed by. . .

FIG. 4D

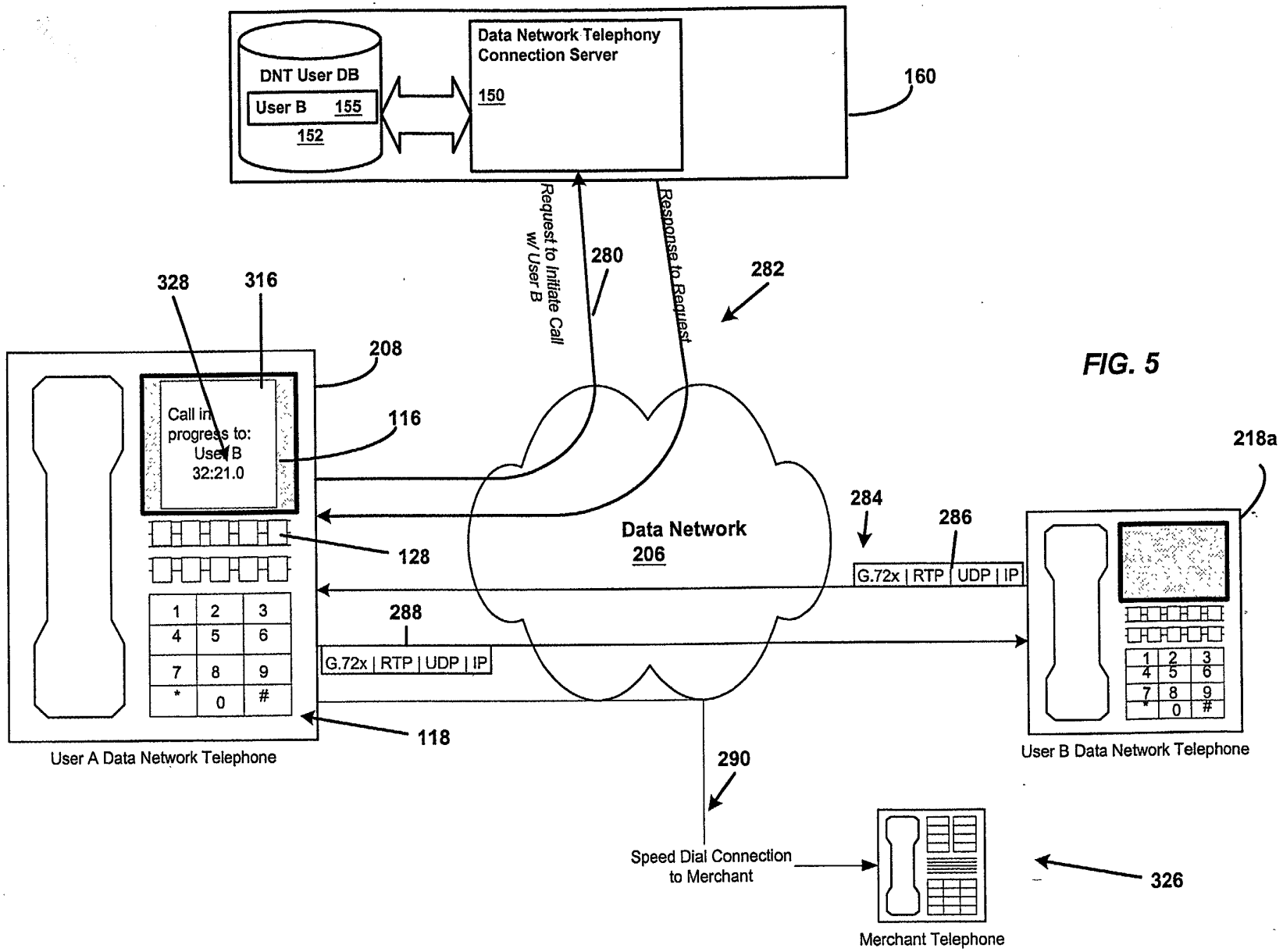

Data Network Telephony Connection Server
150
160
DNT User DB
User B 155
152
Request to Initiate Call w/ User B
Response to Request
280
282
328
316
208
116
Call in progress to: User B 32:21.0
128
1 2 3
4 5 6
7 8 9
* 0 #
118
User A Data Network Telephone
Data Network
206
284
286
G.72x | RTP | UDP | IP
288
G.72x | RTP | UDP | IP
218a
User B Data Network Telephone
290
Speed Dial Connection to Merchant
326
Merchant Telephone

FIG. 5

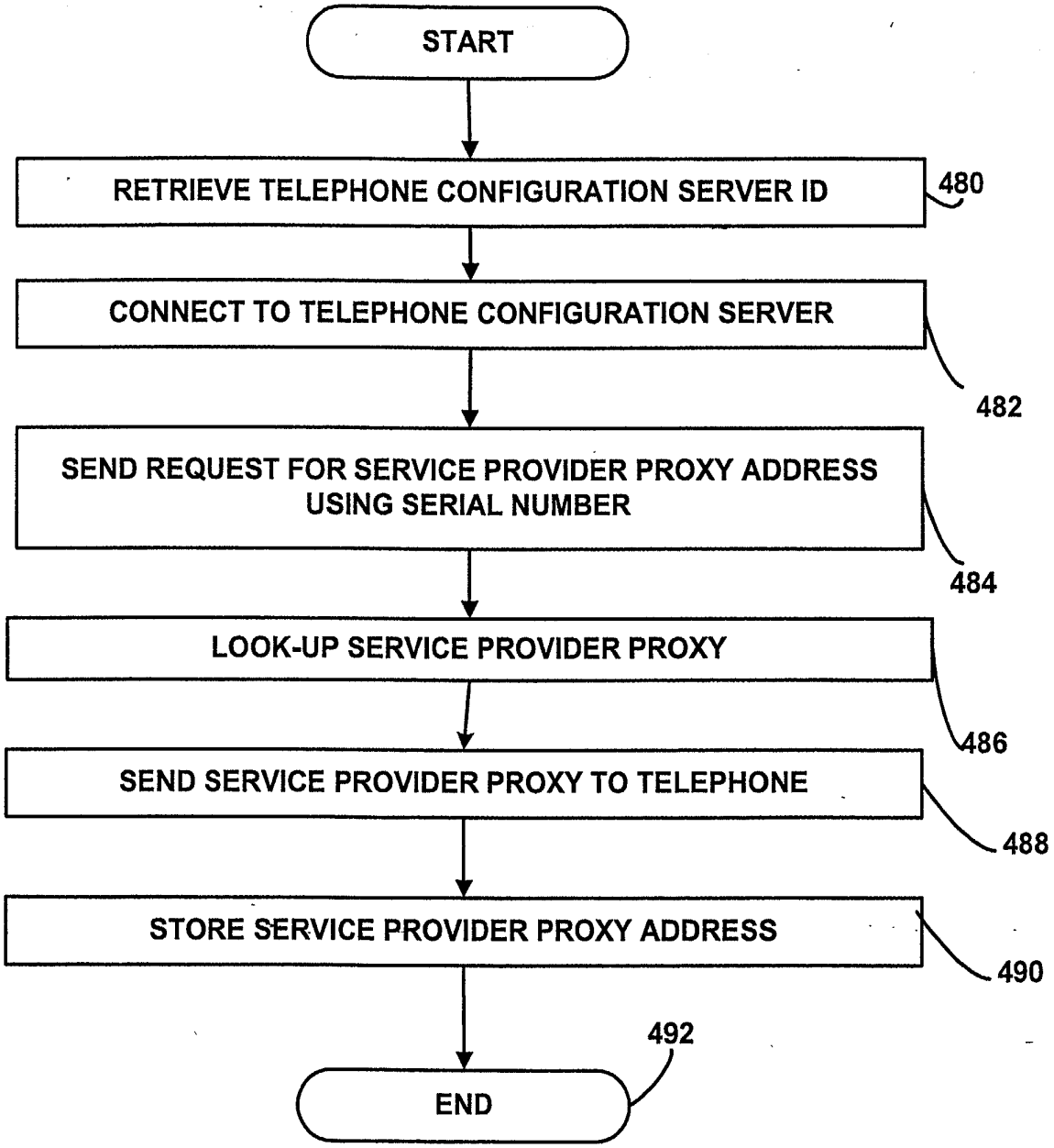

START
RETRIEVE TELEPHONE CONFIGURATION SERVER ID
480
CONNECT TO TELEPHONE CONFIGURATION SERVER
482
SEND REQUEST FOR SERVICE PROVIDER PROXY ADDRESS USING SERIAL NUMBER
484
LOOK-UP SERVICE PROVIDER PROXY
486
SEND SERVICE PROVIDER PROXY TO TELEPHONE
488
STORE SERVICE PROVIDER PROXY ADDRESS
490
492
END

FIG. 6A

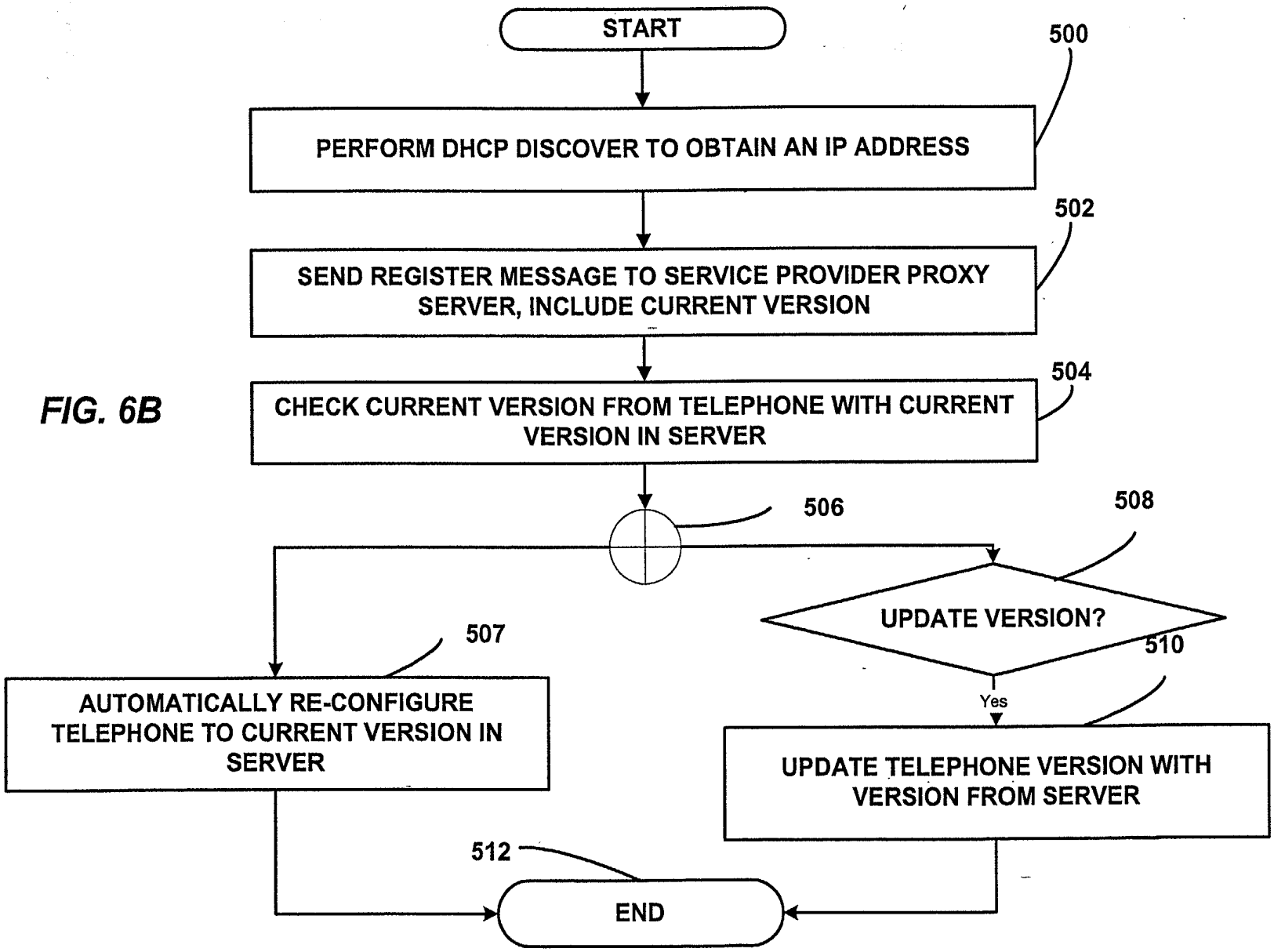

START
500
PERFORM DHCP DISCOVER TO OBTAIN AN IP ADDRESS
502
SEND REGISTER MESSAGE TO SERVICE PROVIDER PROXY SERVER, INCLUDE CURRENT VERSION
504
CHECK CURRENT VERSION FROM TELEPHONE WITH CURRENT VERSION IN SERVER
506
508
UPDATE VERSION?
507
AUTOMATICALLY RE-CONFIGURE TELEPHONE TO CURRENT VERSION IN SERVER
510
Yes
UPDATE TELEPHONE VERSION WITH VERSION FROM SERVER
512
END

FIG. 6B

TOS290 EE882760

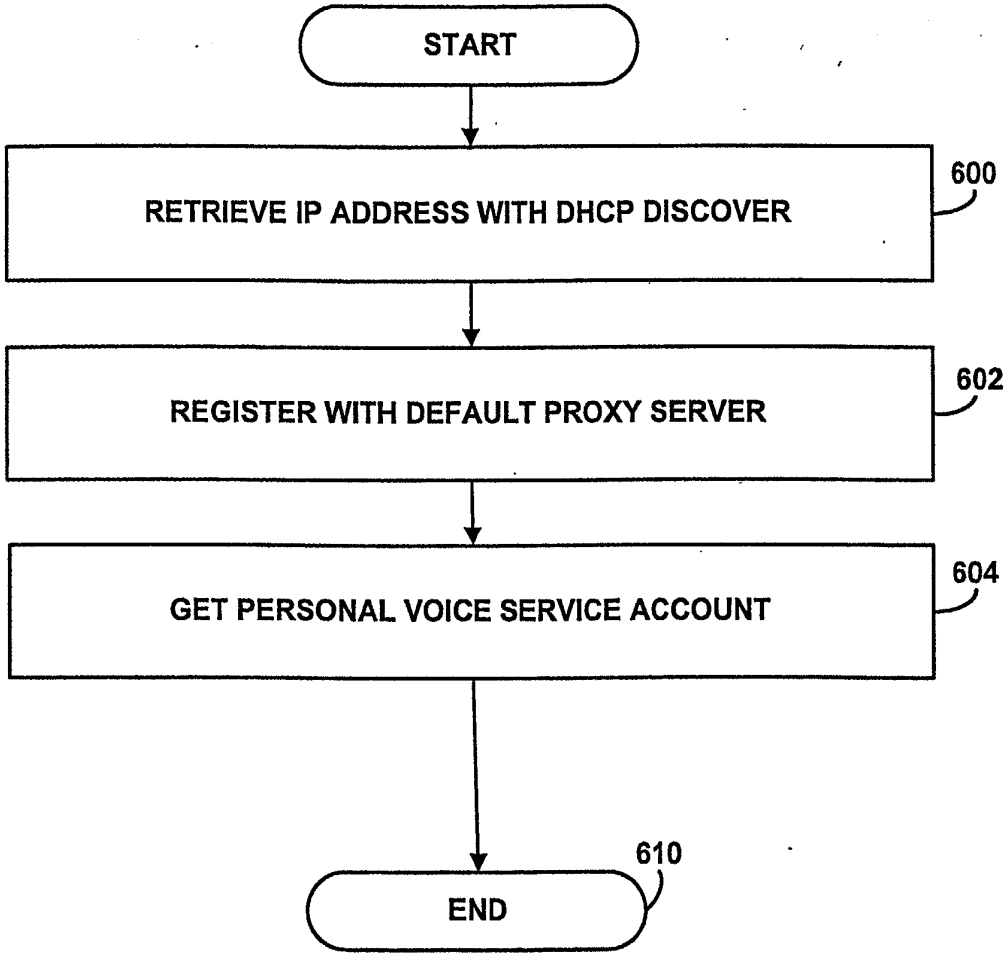


FIG. 7

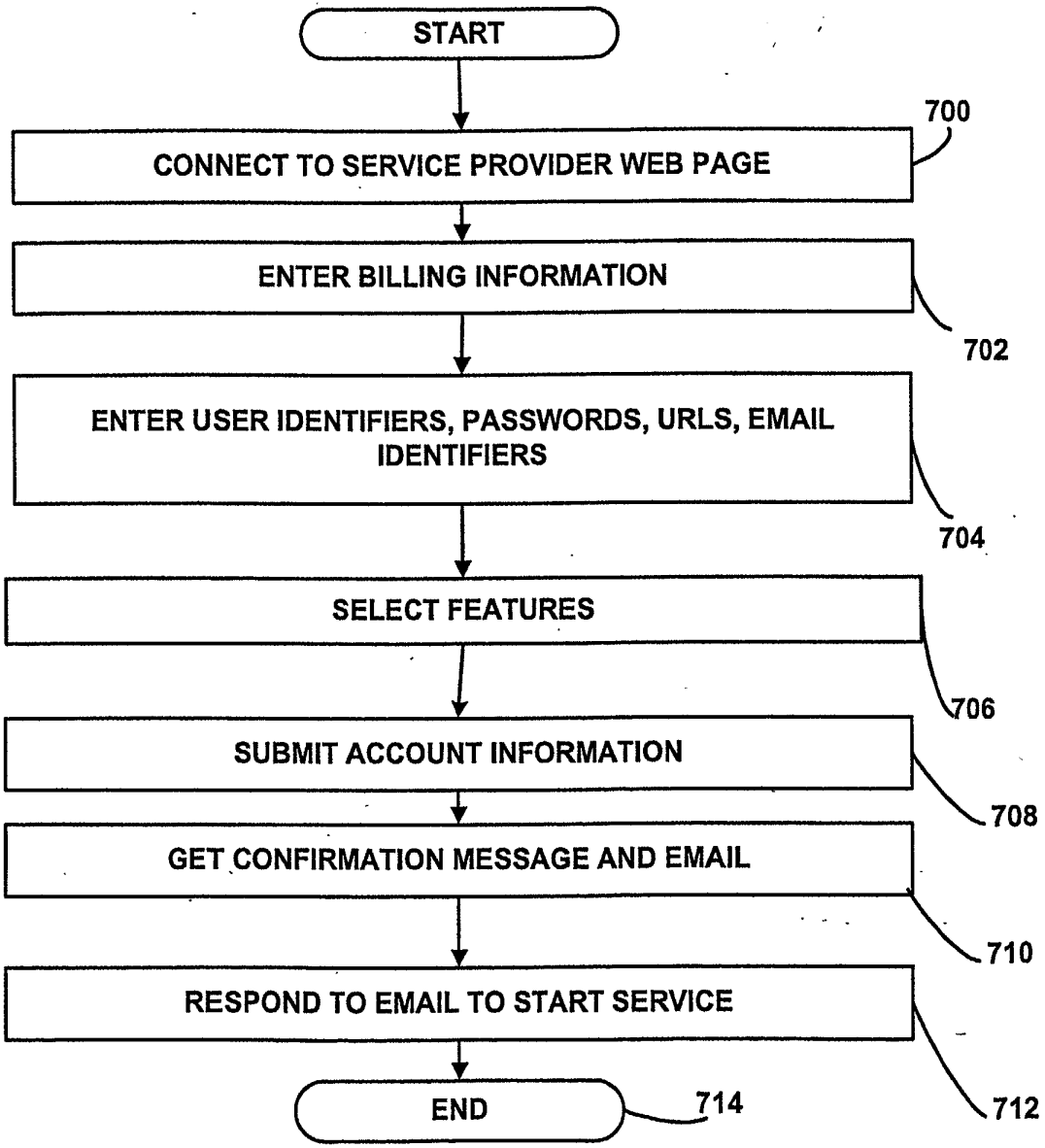

START
CONNECT TO SERVICE PROVIDER WEB PAGE
700
ENTER BILLING INFORMATION
702
ENTER USER IDENTIFIERS, PASSWORDS, URLS, EMAIL IDENTIFIERS
704
SELECT FEATURES
706
SUBMIT ACCOUNT INFORMATION
708
GET CONFIRMATION MESSAGE AND EMAIL
710
RESPOND TO EMAIL TO START SERVICE
712
END
714

FIG. 8